INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP 2004/015447

	SIFICATIONOFSUBJECTMATTER		
Int.Cl7 HO1L 33/00			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELD	S SEARCHED	ification symbols)	
B. FIBLDS SBARCHED Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl7 HO	O1L 33/00	•	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Documentation searched other than minimum documentation to the extent that such documents are included at 11 Model Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Japanese Utility Model Gazette 1994-2004, Japanese Gazette Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette			
Applications 1971-2004, Uspanese Asgress			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
Ejectionic data state some			
		•	
			· · · · · · · · · · · · · · · · · · ·
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appro	priate, of the relevant passages	Relevant to claim No.
Catogory			
x	JP 2002-368271 A (TOYODA GOSE	1-13	
2002 12 20. Full text; All drawings			
& WO 02/101841 A1 & EP 1406313 A1			
1			
]
		-	'
ļ			1
\ ·		•	
1	·		
1			
- {			
	-		
}			
Further documents are listed in the continuation of Box C. See patent fam ily annex.			
* Special categories of cited documents: "T" later document published after the international filing date or			
"A" document defining the general state of the art which is not understand the principle or theory underlying the invention understand the principle or theory underlying the invention cannot be of particular relevance			
"E" earlier application or patent but published on or after the inter- "X" document or patent the considered to involve an			
"L" document which may throw doubts on priority claim(s) or which "L" document which may throw doubts on priority claim(s) or which			
is cited to establish me publication date of another state of the document is special reason (as specified) be considered to involve an inventive step when the document is be considered to involve an inventive step when the document is special reason (as specified)			
"O" document referring to an oral disclosure, use, exhibition or other combination being obvious to a person skilled in the art			
means "P" document published prior to the international filing date but later "&" document member of the same patent family			
than the priority date claimed Date of mailing of the international search report			
Date of th		22.	11.2004
	09.11.2004		
Name and	d mailing address of the ISA/JP	Authorized officer	2K 9814
	Japan Patent Office	Saido Shingo	L
3.4.3 Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Telephone No. +81-3-3581-1101 Ext. 3253	